

What is claimed is:

- 5 1. A replicable paramyxovirus vector carrying a foreign gene, wherein the foreign gene is located downstream of the genes encoding viral proteins in the negative strand genomic RNA contained within said vector.
- 10 2. A replicable paramyxovirus vector of claim 1, wherein said vector is selected from the group consisting of the vectors of (a) to (f) below,
- 15 (a) a vector in which the foreign gene is inserted between the 1<sup>st</sup> gene encoding a viral protein and the 2<sup>nd</sup> gene encoding a viral structure protein from the 3' end of the negative strand genomic RNA contained within the vector,
- 20 (b) a vector in which the foreign gene is inserted between the 2<sup>nd</sup> gene encoding a viral protein and the 3<sup>rd</sup> gene encoding viral structure protein from the 3' end of the negative strand genomic RNA contained within the vector,
- 25 (c) a vector in which the foreign gene is inserted between the 3<sup>rd</sup> gene encoding a viral protein and the 4<sup>th</sup> gene encoding viral structure protein from the 3' end of the negative strand genomic RNA contained within the vector,
- 30 (d) a vector in which the foreign gene is inserted between the 4<sup>th</sup> gene encoding a viral protein and the 5<sup>th</sup> gene encoding viral structure protein from the 3' end of the negative strand genomic RNA contained within the vector,
- 35 (e) a vector in which the foreign gene is inserted between the 5<sup>th</sup> gene encoding a viral protein and the 6<sup>th</sup> gene encoding viral structure protein from the 3' end of the negative strand genomic RNA contained within the vector, and,
- 40 (f) a vector in which the foreign gene is inserted between the 6<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector, and the trailer sequence.
3. The vector of claim 2, wherein the 1<sup>st</sup> to 6<sup>th</sup> genes encoding viral proteins from the 3' end of the negative strand genomic RNA contained within the vector are, NP gene, P gene, M gene, F gene, HN gene, and L gene, in their order.
4. A DNA corresponding to the negative strand genomic RNA contained in the paramyxovirus vector of claim 1, or their complementary strands.

5. A DNA corresponding to the negative strand genomic RNA contained in replicable paramyxovirus vector or its complementary strand, wherein said DNA comprises a cloning site for inserting a foreign gene downstream of the genes encoding viral proteins.

5 6. A DNA of claim 5, wherein said DNA is selected from the group consisting of the DNAs of (a) to (f) below,

10 (a) a DNA comprising a cloning site for inserting a foreign gene between the 1<sup>st</sup> and 2<sup>nd</sup> genes encoding viral proteins from the site equivalent to the 3' end of the negative strand genomic RNA,

(b) a DNA comprising a cloning site for inserting a foreign gene between the 2<sup>nd</sup> and 3<sup>rd</sup> genes encoding viral proteins from the site equivalent to the 3' end of the negative strand genomic RNA,

15 (c) a DNA comprising a cloning site for inserting a foreign gene between the 3<sup>rd</sup> and 4<sup>th</sup> genes encoding viral proteins from the site equivalent to the 3' end of the negative strand genomic RNA,

20 (d) a DNA comprising a cloning site for inserting a foreign gene between the 4<sup>th</sup> and 5<sup>th</sup> genes encoding viral proteins from the site equivalent to the 3' end of the negative strand genomic RNA,

25 (e) a DNA comprising a cloning site for inserting a foreign gene between the 5<sup>th</sup> and 6<sup>th</sup> genes encoding viral proteins from the site equivalent to the 3' end of the negative strand genomic RNA,

30 (f) a DNA comprising a cloning site for inserting a foreign gene between the 6<sup>th</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA and the trailer sequence.

7. The DNA of claim 6, wherein the 1<sup>st</sup> to 6<sup>th</sup> genes encoding viral proteins from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector are, NP gene, P gene, M gene, F gene, HN gene, and L gene, in their order.

35 ~~8. A vector DNA carrying the DNA of claim 4 in an expressible manner.~~

~~9. The vector DNA of claim 8, which carries positive strand genomic RNA in an expressible manner.~~